PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No. 7,894,633	)	Serial No. 09/586,869
	)	
Inventor(s): Philip Victor HARMAN	)	Filed: June 5, 2000
	)	
Issue Date: February 22, 2011	)	Attorney Docket No. 006020.00008

For: IMAGE CONVERSION AND ENCODING TECHNIQUES

REQUEST FOR CERTIFICATE OF CORRECTION

U.S. Patent and Trademark Office
Customer Service Window
Randolph Building, Mail Stop: Certificate of Correction Branch
401 Dulany Street
Alexandria, VA 22314

Sir:

Pursuant to 35 U.S.C. § 254 and 37 C.F.R. § 1.322, Applicant requests the issuance of a Certificate of Correction in the above-identified patent. A copy of PTO Form 1050 is appended. The complete Certificate of Correction involves one page.

The mistake identified in the appended Form occurred through no fault of the Applicant, as clearly disclosed by the records of the application, which matured into this patent. Enclosed for your convenience the relevant portion of the Amendment filed August 10, 2010.

Issuance of the Certificate of Correction containing the correction is respectfully requested. Since this change is necessitated through no fault of the Applicant, no fee is believed to be associated with this request. Nonetheless, should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: October 7, 2011
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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO.: 7,894,633

DATED: February 22, 2011

INVENTOR(S): Philip Victor HARMAN

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 16, Claim 1, Line 10:
Please replace "the relative depth" with --the depth--

Mailing Address of Sender:

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Electronic Acknowledgement Receipt

EFS ID:	8191362
Application Number:	09586869
International Application Number:	
Confirmation Number:	7648
Title of Invention:	Image conversion and encoding techniques
First Named Inventor/Applicant Name:	Philip Victor Harman
Customer Number:	22907
Filer:	Gary D. Fedorochko/Lisa Bahm
Filer Authorized By:	Gary D. Fedorochko
Attorney Docket Number:	006020.00008
Receipt Date:	10-AUG-2010
Filing Date:	05-JUN-2000
Time Stamp:	16:51:39
Application Type:	Utility under 35 USC 111(a)

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Payment was successfully received in RAM	$245
RAM confirmation Number	3346
Deposit Account	190733
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Amendment_OA_031210-081010.pdf	98085 064550fbeb0a59e792af1cd304527a957174 7401	yes	6

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Amendment/Req. Reconsideration-After Non-Final Reject	1	1
Claims	2	4
Applicant Arguments/Remarks Made in an Amendment	5	6

Warnings:

Information:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
2	Fee Worksheet (PTO-875)	fee-info.pdf	30121 81fafbb3a221189562dd73addefcf24b5350 cb9c	no	2

Warnings:

Information:

Total Files Size (in bytes):	128206

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<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:		Atty. Docket No.:	006020.00008
Philip Victor HARMAN			
Serial No.:	09/586,869	Group Art Unit:	2624
Filed:	June 5, 2000	Examiner:	Kim, C.
For:	IMPROVED IMAGE CONVERSION AND ENCODING TECHNIQUES	Confirmation No.:	7648

AMENDMENT

U.S. Patent and Trademark Office
Customer Service Window, Box Amendment
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir:

PETITION FOR EXTENSION OF TIME

This paper is responsive to the Office Action mailed March 12, 2010. Applicant requests a two month (2) extension of time until August 12, 2010. The Commissioner is authorized to charge our Deposit Account No. 19-0733 in the amount of $245.00.

If additional fees are required or if an overpayment is made, the Commissioner is authorized to charge or credit our Deposit Account No. 19-0733, accordingly.

RESPONSE

In response to the Office Action mailed March 12, 2010, please amend the instant application as follows:

- **Amendments to the Claims** are reflected in the Listing of Claims, which begins on page 2 of this paper.
- **Remarks/Arguments** begin on page 5 of this paper.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (canceled)

2. (previously presented) The method as claimed in claims 27 or 46 wherein the object outline is defined by a series of co-ordinates, curves and/or geometric shapes.

Claims 3-10 (canceled)

11. (previously presented) The method as claimed in claims 27 or 46, wherein the depth tag includes a color code.

Claim 12 (canceled)

13. (previously presented) The method as claimed in claims 27 or 46, wherein said depth tag is a numerical value.

14. (previously presented) The method as claimed in claim 13, wherein said numerical value ranges from 0 to 255.

Claims 15-18 (canceled)

19. (previously presented) The method as claimed in claim 27 or 46 further including adding a texture bump map to the at least one object.

20. (previously presented) The method as claimed in claim 19, wherein said texture bump map is defined by breaking the at least one object into a plurality of components and assigning each component a separate depth tag.

21. (previously presented) The method as claimed in claim 19, wherein said texture bump map is defined by luminance values of individual components of the at least one object.

22. (previously presented) The method as claimed in claim 19, wherein said texture bump map is defined by chrominance, saturation, color grouping, reflections, shadows, focus and/or sharpness of individual components of the at least one object.

Claims 23-26 (canceled)

27. (currently amended) A method of encoding a depth map comprising:

allocating an object identifier to a plurality of objects without using distance measurement data;

defining an outline of each object;

allocating a depth tag to each said object including

allocating a depth function including a linear ramp or radial ramp, and

allocating a depth for each object, the depth representing the ~~relative depth~~ between said objects; and

producing a depth map by encoding said depth tag and said outlines of each said object,

wherein the depth map is configured to be decoded to generate a distortion grid, the distortion grid being used to generate stereoscopic 3D images, and

wherein the steps of allocating the object identifier, allocating the depth tag and defining the outline are performed by a computer or by receiving an input via a pointing device.

28. (previously presented) The method as claimed in claim 27, wherein said object outline is defined by a series of x,y coordinates, each x,y coordinate being separated by a curve.

29. (previously presented) The method as claimed in claim 28, wherein each said curve is stored in a library and allocated a unique number.

30. (previously presented) The method as claimed in claim 28 or claim 29, wherein said object outline also includes data on the orientation of each curve.

31. (previously presented) The method as claimed in claim 28 or claim 29, wherein each said curve is a bezier curve.

32. (previously presented) The method as claimed in claim 27, wherein said object outline is defined by at least one geometric shape.

33. (previously presented) The method as claimed in claim 32, wherein said at least one geometric shape is defined by the form of the shape and the parameters of the shape.

Claims 34-42 (canceled)

43. (previously presented) A method of converting 2D images into stereoscopic images applying a depth map generated according to the method of claim 46.

44. (previously presented) A method of converting 2D images into stereoscopic images applying an encoded depth map generated according to the method of claim 27.

Claim 45 (canceled)

46. (currently amended) A method of encoding a depth map comprising:

allocating object identifiers to a plurality of objects;

defining an outline of each object;

allocating a depth tag to each said object; and

producing a depth map by encoding said depth tag and said outline of each said object,

wherein said allocating the depth tag includes:

allocating a depth function including a linear ramp or radial ramp; and

allocating a depth for each object, said depth representing the ~~relative~~ depth between said objects,

wherein the depth map is configured to be decoded to generate a distortion grid, the distortion grid being used to generate stereoscopic 3D images, and

wherein the steps of allocating the object identifier, allocating the depth tag and defining the outline are performed by a computer or by receiving an input via a pointing device.

Claims 47-51 (canceled)